

CSC-K224 – JAVA PROGRAMMING 2

COURSE SYLLABUS

FALL 2018 (ONLINE VIA BLACKBOARD LEARN)

INSTRUCTOR: Dr. Eric Marsh

CONTACT METHODS

PRIVATE (ONLY PRIVATE MATTERS)

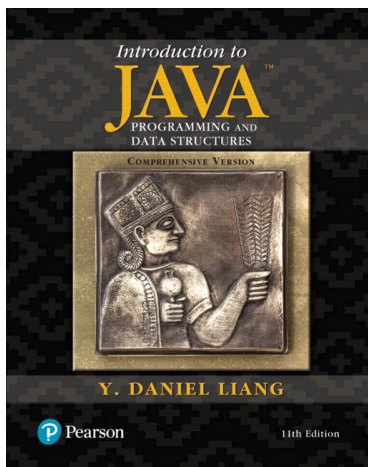
- Blackboard Learn message (preferred)
- wmarsh@trcc.comnet.edu (emergency only)

PUBLIC (MOST TOPICS)

- Blackboard Learn discussion forums

Dr. Marsh has no on-campus presence. The goal is to reply within 48 hours using the above methods. Discussion posts will take precedence. Replies will typically be in the evening or on weekends.

REQUIRED TEXTBOOK



Introduction to Java Programming and Data Structures (comprehensive), 11th Edition, by Y. Daniel Liang, Prentice Hall Publishing, Copyright 2018 (ISBN-13: 9780134670942). The resource website, (requires access code inside the front cover of your book), containing additional information including example source code, solutions to even numbered problems, and links to software, is located at:

<http://www.cs.armstrong.edu/liang/intro11e>.

SOFTWARE, SUPPLIES, AND MATERIALS

- Eclipse IDE: <https://www.eclipse.org/downloads/>. The instructor will be using version 4.8.0 (Photon), 64-bit.
- Java SE (JDK): <http://www.oracle.com/technetwork/java/javase/downloads>. The instructor will be using version 8u181, and it is highly recommended that you also use this version if possible.
- Removable storage device for students requiring use of on-campus computer labs for course completion.

COURSE DESCRIPTION

This course covers more advanced Java programming concepts, focusing on data structures and algorithms, with specific topics including lists, stacks, queues, priority queues, sets, maps (hash tables), and binary search trees, time complexity, space complexity, and recursion. The course discusses building these data structures from scratch as well as leveraging the Java API.

COURSE OBJECTIVES

- Introduce elementary data structures, including lists, stacks, queues, priority queues.
- Implement data structures in Java.
- Gain an understanding of recursion.
- Introduce other advanced programming concepts as time warrants, including networking, database programming, and graphs.

GRADING CRITERIA

Grades will be assigned as objectively as possible, with the following components:

Homework assignments	60%	(600 points)
Blackboard discussions	10%	(100 points)
Midterm exam	15%	(150 points)
Final exam	15%	(150 points)
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	100%	(1000 points)

HOMEWORK ASSIGNMENTS (60% OF OVERALL GRADE)

Several programming assignments will be assigned throughout the semester, mostly comprising exercises from the textbook. These assignments will each have a due date/time and late submissions will not be accepted.

BLACKBOARD DISCUSSIONS (10% OF OVERALL GRADE)

All students are expected to actively participate in the Blackboard discussion forums. Please post any questions or comments related to course topics and help classmates by responding to questions for which you know the answer.

WITHDRAWING FROM THE COURSE

A student who simply stops submitting work will receive the grade earned on that work, usually a failing grade. To receive a "W" grade instead, apply for a withdrawal through the registrar's office by the designated date. A "W" will be entered on the student transcript but will not be included in the calculation of the GPA.

CLASS CANCELLATIONS

This is a fully online course, so college delays and closures will rarely affect our schedule. If there is an impact (for example, a widespread power outage), then the instructor will inform you of any changes to the schedule or deadlines.

COURSE PACE AND LATE WORK

Though this online course affords great flexibility, it is not self-paced. Late assignments will not generally be accepted.

COURSE OUTLINE

Week	Starting date	Topics	Textbook chapter	Assignment	Discussion
1	8/28	Introduction to data structures			1
2	9/4	Recursion	18	1	
3	9/11	Generics	19		
4	9/18	Lists, Stacks, Queues, Priority Queues	20	2	2
5	9/25	Sets and Maps	21		
6	10/2	Developing Efficient Algorithms	22	3	3
7	10/9	Sorting	23		
8	10/16	Implementing Lists, Stacks, Queues, and Priority Queues	24	4	4
9	10/23	Binary Search Trees	25		
10	10/30	Midterm Exam, Chapters 18-25 (11/1 -> 11/3)		5	5
11	11/6	Hashing	27		
12	11/13	Graphs and Applications	28	6	6
	11/20	Thanksgiving Recess			
13	11/27	Weighted Graphs and Applications	29		
14	12/4	Review			7
15	12/11	Final Exam, all covered material (12/13 -> 12/15)			(due 12/16)

Note: This course outline is subject to change.

ACADEMIC INTEGRITY

Students are expected to do their own work in this class. Working together to better understand the material is acceptable. Submitting duplicate work is not and will adversely affect the assignment grade. Actively participating in the discussion boards both to ask and to answer questions is expected of all students. Posting of detailed instructions for “how to” responses to questions is encouraged but posting of a complete solution is not. *Academic dishonesty* shall in general mean conduct which has as its intent or effect the false representation of a student’s academic performance, including but not limited to:

- cheating on an examination,
- collaborating with others in work to be presented, contrary to the stated rules of the course,
- plagiarizing, including the submission of others’ ideas or papers (whether purchased, borrowed, or otherwise obtained) as one’s own,
- stealing or having unauthorized access to examination or course materials,
- falsifying records of laboratory or other data,
- submitting, if contrary to the rules of a course, work previously presented in another course, and
- knowingly and intentionally assisting another student in any of the above, including assistance in an arrangement whereby any work, classroom performance, examination or other activity is submitted or performed by a person other than the student under whose name the work is submitted or performed.

STUDENTS WITH DISABILITIES

If you are a student with a disability and believe you will need support services and/or accommodations for this class, please contact the Disabilities Support Services at TRCC. Please note that the instructor cannot provide accommodations based upon disability until the instructor has received an accommodation letter from the Disabilities Counselor.

DIGICATION

All students are required to maintain an online learning portfolio in Digication that uses the college template.

NON-DISCRIMINATION POLICY

Three Rivers Community College does not discriminate on the basis of race, color, religious creed, age, sex, national origin, marital status, ancestry, present or past history of mental disorder, learning disability or physical disability, sexual orientation, gender identity and expression, or genetic information in its programs and activities. In addition, the College does not discriminate in employment on the basis of veteran status or criminal records. The following person has been designated to handle inquiries regarding the non-discrimination policies:

Title IX Coordinator

Three Rivers Community College
574 New London Turnpike
Norwich, CT 06360
860-215-9208

SEXUAL MISCONDUCT

Three Rivers Community College strongly encourages all students to report any incidents of sexual misconduct, which includes, but is not limited to, sexual harassment, intimate partner violence, and sexual assault. Students have the right to the prompt and fair resolution of all claims, and the College will preserve the confidentiality of all who report to the fullest extent possible and allowed by law. College employees will explain the limits of confidentiality before information about the incident is revealed. To report sexual misconduct, or to learn more about your options, please contact the Title IX Coordinator. **If you need immediate, confidential assistance, please call the Sexual Assault Crisis Center of Eastern Connecticut hotline at 860-437-7766.**

Title IX Coordinator

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Sexual Assault Crisis Center of Eastern Connecticut

Hotline: 860-437-7766
Office: 860-442-0604
78 Howard Street, 2nd Floor
New London, CT 06320